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MISSOURI · KANSAS CITY RIVER BASIN

TEAL LAKE DAM AUDRAIN COUNTY, MISSOURI MO. 10082



PHASE I INSPECTION REPORT ATIONAL DAM SAFETY PROGRAM.

Teal Lake Dam (MO- 10082) Missouri - Kansas City River Basin. Audrain County, Missouri Phase I Inspection Report.

(15) DACW43-8Ø-C-ØØ94

[9] Final rept.

(11) Nov 80 /

United States Army Corps of Engineers

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St. Louis District

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PREPARED BY: U. S. ARMY ENGINEER DISTRICT, ST. LOUIS

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This report was prepared under the National Program of Inspection of					
Non-Federal Dams. This report assesses the general condition of the dam with					
respect to safety, based on available data and on visual inspection, to					
determine if the dam poses hazards to human life or					
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ST. LOUIS DISTRICT. CORPS OF ENGINEERS
210 TUCKER BOULEVARD, NORTH
ST. LOUIS, MISSOURI 62101

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SUBJECT: Teal Lake Dam (MO 10082) Phase I Inspection Report

This report presents the results of field inspection and evaluation of the Teal Lake Dam (MO 10082).

It was prepared under the National Program of Inspection of Non-Federal Dams.

This dam has been classified as unsafe, emergency by the St. Louis District as a result of the application of the following criteria:

- a. Spillway will not pass a 10-year frequency flood without overtopping of the dam. The spillway is, therefore, considered to be unusually small and seriously inadequate.
 - b. Overtopping could result in dam failure.
- c. Dam failure significantly increases the hazard to life and property downstream.

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SUBMITTED BY:		1.8 DEC 1980
	Chief, Engineering Division	Date
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TEAL LAKE DAM AUDRAIN COUNTY, MISSOURI

MISSOURI INVENTORY NO. 10082

PHASE I INSPECTION REPORT
NATIONAL DAM SAFETY PROGRAM

PREPARED BY
CONSOER, TOWNSEND AND ASSOCIATES, LTD.
ST. LOUIS, MISSOURI
AND

PRC ENGINEERING CONSULTANTS, INC.
ENGLEWOOD, COLORADO
A JOINT VENTURE

UNDER DIRECTION OF
ST. LOUIS DISTRICT, CORPS OF ENGINEERS
FOR
GOVERNOR OF MISSOURI

NOVEMBER 1980

PHASE I INSPECTION REPORT NATIONAL DAM SAFETY PROGRAM

Name of Dam:

Teal Lake Dam, Missouri Inv. No. 10082

State Located:

Missouri

County Located:

Audrain

Stream:

An unnamed tributary of the South Fork Salt River

Date of Inspection: July 10, 1980

Assessment of General Condition

Teal Lake Dam was inspected by the engineering firms of Consoer, Townsend and Associates, Ltd., of St. Louis, Missouri, and PRC Engineering Consultants, Inc., of Englewood, Colorado, (a joint venture) according to the U.S. Army Corps of Engineers' "Recommended Guidelines for Safety Inspection of Dams" and additional guidelines furnished by the St. Louis District of the Corps of Engineers. Based upon the criteria in the guidelines, the dam is in the high hazard potential classification, which means that loss of life and appreciable property loss could occur in the event of failure of the dam. Within the estimated damage zone of two miles downstream of the dam are two dwellings, three buildings, one railroad bridge, and a school which may be subjected to flooding, with possible damage and/or destruction, and possible loss of life. Teal Lake Dam is in the small size classification since it is 20 feet high, and impounds more than 50 acre-feet but less than 1,000 acre-feet of water.

The inspection and evaluation by the consultant's inspection team indicates that the spillway of Teal Lake Dam does not meet the criteria set forth in the guidelines for a dam having the above size and hazard potential. Teal Lake Dam being a small size dam with a high

hazard potential is required by the guidelines to pass from one-half of the Probable Maximum Flood to the Probable Maximum Flood without overtopping. Considering the number of inhabited dwellings and a school being located within one mile downstream of the dam, the PMF is considered the appropriate spillway design flood for Teal Lake Dam. The Probable Maximum Flood is defined as the flood discharge that may be expected from the most severe combination of critical meteorological and hydrologic conditions that are reasonably possible in the region. It was determined reservoir/spillway system that the can accommodate approximately 12 percent of the Probable Maximum Flood without The evaluation also indicates that overtopping the dam. reservoir/spillway system cannot accommodate the ten-percent chance flood (10-year flood) without overtopping.

Other deficiencies noted by the inspection team were: the erosion on the downstream slope and the left abutment due to steep slopes and lack of protective grass cover, lack of adequate protection against erosion on the upstream slope, the small trees observed on the downstream slope, the bulges observed in the two spillway pipes, the two sections of the pipe on the far left side of the spillway which were cut out of the bottom of the conduit and the rusting of the bottom of this pipe, the erosion near the right wingwall of the headwall of the spillway, a need for periodic inspection by a qualified engineer and a lack of maintenance schedule. The lack of seepage and stability analyses on record is also a deficiency that should be corrected.

It is recommended that the owner take action to correct or control the deficiencies described above.

Walter G. Shifrin, P.E.

SHIFRIN

Shir & Ship



Overview of Teal Lake Dam

NATIONAL DAM SAFETY PROGRAM

TEAL LAKE DAM, I.D. No. 10082

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PHASE I INSPECTION REPORT NATIONAL DAM SAFETY PROGRAM

TEAL LAKE DAM, Missouri Inv. No. 10082

SECTION 1: PROJECT INFORMATION

1.1 General

a. Authority

The Dam Inspection Act, Public Law 92-367 of August, 1972, authorizes the Secretary of the Army, through the Corps of Engineers, to initiate a national program of dam inspections. Inspection for Teal Lake Dam was carried out under Contract DACW 43-80-C-0094 between the Department of the Army, St. Louis District, Corps of Engineers, and the engineering firms of Consoer, Townsend & Associates, Ltd., and PRC Engineering Consultants, Inc. (A Joint Venture), of St. Louis, Missouri.

b. Purpose of Inspection

The visual inspection of Teal Lake Dam was made on July 10, 1980. The purpose of the inspection was to make a general assessment as to the structural integrity and operational adequacy of the dam embankment and its appurtenant structures.

c. Scope of Report

This report summarizes available pertinent data relating to the project, presents a summary of visual observations made during the field inspection, presents an assessment of hydrologic and hydraulic conditions at the site, and the structural adequacy of the various project features and assesses the general condition of the dam with respect to safety.

Subsurface investigations, laboratory testing and detailed analyses were not within the scope of this study. No warranty as to the absolute safety of the project features is implied by the conclusions presented in this report.

It should be noted that in this report reference to left or right abutments is viewed as looking downstream. Where left abutment or left side of the dam is used in this report, this also refers to the northwest abutment or side, and right to the southeast abutment or side.

d. Evaluation Criteria

The inspection and evaluation of the dam is performed in accordance with the U.S. Army Corps of Engineers' "Recommended Guidelines for Safety Inspection of Dams" and additional guidelines furnished by the St. Louis District office of the Corps of Engineers for 5 ase 1 Dam Inspection.

1.2 Description of the Project

a. Description of Dam and Appurtenances

The following description is based exclusively upon observations and measurements made during the visual inspection and from conversations with Messers. Jim Dalton, Jim Maunder, and Dennis Hammen, representatives of A.P. Green Refractories Co. Design

drawings were available for this dam and are included as a part of this report (see Plates 3 through 6). There were no discrepancies between our field notes and the design drawings.

The dam was originally constructed in 1938, as further described in Section 1.2g, and was partially reconstructed in 1966, as described below. The dam is a rolled, earthfill structure with a straight alignment between natural soil abutments. elevation of the dam are shown on Plate 2 and Photos 2 and 5 show views of the dam. The top of dam varies in width from 60 feet at the location where the spillway passes through the embankment to 35 feet for the rest of the embankment. The length of the dam was measured to be approximately 200 feet. The top of dam was measured to be level from the left abutment to a point 60 feet to the left of the right abutment. From this point, the top of dam slopes upward with a rise in elevation of 3 feet before meeting the right abutment area. The top of dam elevation was found to be at 760.33 feet above mean sea level (M.S.L.) at the location of the spillway assuming the crest of the spillway is at 753 feet above M.S.L. The portion of the upstream face at the spillway is a vertical headwall while the remainder of the upstream face was measured to have an average slope of 1 vertical to 2.25 horizontal (1V to 2.25H) above the water surface. The downstream slope was measured to be on the average IV to 1.5H.

Only one spillway was provided for this dam which consists of five, 65-inch by 40-inch corrugated metal pipe-arches, spaced approximately 8.0 feet apart. The pipe-arches pass through the embankment at about the mid-third of the dam on a grade of about 13 percent and are 80 feet in length. At the upstream end of the spillway, an 1-foot thick headwall was provided that has 20-foot long wingwalls at each end that extend downstream at a 45-degree angle (see Photo 1). A 5-foot wide concrete apron, which extends outward from the headwall at the invert of the pipe-arches, was also provided (see Photo 9). At the downstream end of the pipes, discharges through the spillway drop approximately 1.5 feet into the

discharge pond. A 4-foot high trashrack was provided at the entrance to the spillway that consisted of wire mesh strung between a metal framework.

No low level outlets or outlet works were provided for this dam.

b. Location

Teal Lake Dam is located in Audrain County in the State of Missouri, and crosses an unnamed tributary of South Fork Salt River. The community of Mexico is about 3/4 mile to the north of the dam. The Teal Lake Dam location on the 7.5 minute series of the U.S. Geological Survey maps is found in Section 36 of Township 51 North, Range 9 West, of the Mexico East, Missouri Quadrangle Sheet.

c. Size Classification

The impoundment of Teal Lake Dam is less than 1,000 acrefeet but more than 50 acre-feet, and the height is 20 feet. Therefore, the size is determined to fall in the "small" category, according to the "Recommended Guidelines for Safety Inspection of Dams" by the U.S. Department of the Army, Office of the Chief Engineer.

d. Hazard Classification

The dam has been classified as having a "high" hazard potential in the National Inventory of Dams, on the basis that in the event of failure of the dam or its appurtenances, excessive damage could occur to downstream property, together with the possibility of the loss of life. The findings of the consultant's inspection team concur with this classification. There are two dwellings, three buildings, one railroad bridge and a school within the estimate damage zone, extending two miles downstream of the dam.

e. Ownership

Teal Lake Dam is privately owned by A. P. Green Refractories Co. of Mexico, Missouri. All correspondence are directed to Mr. Jim Maunder, Manager of Manufacturing, A. P. Green Refractories Co., Green Blvd., Mexico, Missouri, 65265.

f. Purpose of Dam

According to Mr. Maunder, the dam was constructed to provide a recreational lake and a truck haul road.

g. Design and Construction History

According to the information obtained from Mr. Jim Maunder of A. P. Green Refractories Co., the dam was originally designed in 1938 and it is presumed that the design was performed by A. P. Green personnel. Mr. Maunder also believes that A. P. Green personnel were responsible for the original construction. According to Mr. Maunder, the lake was originally a clay pit that was converted to a recreational lake for the employees of A. P. Green The original dam consisted of a 12-foot high by Refractories Co. 200-foot long earth embankment with upstream and downstream slopes of 1V to 3H and 1V to 2H, respectively. A benched, core trench was also part of the construction that was 12 feet wide at the ground surface and was stepped down 3 times to a width of 4 feet at the bottom of the 17-foot deep excavation. The core trench was constructed to a hard clay foundation. Backfill was indicated to be select clay material placed in approximately 6-inch compacted lifts in the core trench area and 1-foot loose lifts in the embankment. A 200-foot long and 80-foot wide heavy, rubble, stone masonry spillway was provided. A pier was placed in the center of the spillway to accommodate two, 40-foot bridge spans.

The dam was essentially rebuilt in 1966 by replacing most of the 1938 structure with the existing embankment and pipe-arch spillway. Several post construction changes and repairs were made on the dam since the 1966 reconstruction and are described in Section 6.1.d. According to the design drawings, a portion of the original spillway appears to be buried in the embankment (see Plate 3).

No emergency spillway was provided for this dam; however, according to Mr. Jim Dalton of A. P. Green, a 2-foot by 3-foot channel was cut through the embankment just to the left of the spillway during a period of heavy rainstorms in 1977. This was done as a precautionary measure and later, the trench was filled in and compacted.

h. Normal Operational Procedures

There are no specific operational procedures for this dam; however, during periods of heavy rainfall, A. P. Green Co. personnel check the performance of the spillway and observe the reservoir level.

1.3 Pertinent Data

a. Drainage Area (square miles):	6.43
b. Discharge at Damsite	
Estimated experienced maximum flood (cfs): 3,	600
Estimated ungated spillway capacity with reservoir at top of dam elevation (cfs): 1,	327
c. Elevation (Feet above M.S.L.)	
Top of dam (minimum):	760.33
Spillway crest:	753
Normal Pool:	753
Maximum Experienced Pool:	761.8
Observed Pool:	753
d. Reservoir	
Length of pool with water surface at top of dam elevation (feet):4,	500
e. Storage (Acre-Feet)	
Top of dam (minimum):	896
Spillway crest:	179
Normal Pool:	179
Maximum Experienced Pool:	100
Observed Pool:	179
f. Reservoir Surfaces (Acres)	
Top of dam (minimum):	132
Spillway crest:	67
Normal Pool:	67
Maximum Experienced Pool:	146
Observed Pool:	67

g. Dam
Type: Earthfill
Length: 200 feet
Structural Height: 20 feet
Hydraulic Height*: 20 feet
Top width: 60 feet or 35 feet outside of spillway section
Side slopes:
Downstream lV to 1.5H
Upstream Vertical or 1V to 2.25H outside of spillway
section (Above the water surface)
Zoning: Homogeneous
Impervious core: NA
Cutoff: Unknown, (original core trench
may have been undisturbed
during the 1966 reconstruction)
Grout curtain: Yes, remedial measure in 1967(see Plate 4).
Freeboard above
Normal reservoir level: 7.3 feet (minimum)
Volume: 3,025 cu. yds. (According to
design drawings)
h. Diversion and Regulating Tunnel None
i. Spillway
Type: Culvert, five, 65-inch by
40-inch corrugated metal
' pipe-arches
Length of crest: NA
Crest Elevation
(feet above M.S.L.) 753

j. Regulating Outlets. None

* The hydraulic height of the dam is the vertical distance from the lowest point on the downstream toe to the top of dam or the maximum water surface, if below the top of dam.

SECTION 2: ENGINEERING DATA

2.1 Design

A four sheet set of engineering drawings was obtained from A. P. Green Refractories Co. and are included as part of this report (see Plates 3 through 6). A three page set of "Plant Engineering Job Orders" which illustrates part of the original 1938 construction were also made available. No specific information regarding sub-surface soils or embankment compaction were available.

2.2 Construction

The only construction data available is the three page set of "Plant Engineering Job Orders" illustrating the 1938 construction. No data is available concerning the 1966 construction other than the construction history furnished by Mr. Maunder of A. P. Green, which is outlined in Section 1.2.g.

2.3 Operation

No operational records are available for Teal Lake Dam.

2.4 Evaluation

a. Availability

The availability of engineering data is fair and consists of a four page set of drawings which deal with the present condition of the dam and spillway. A list of post construction changes was furnished by the owner's representatives. Other sources of information included State Geological Map, a general soils map published by the Soil Conservation Service, and U.S.G.S. Quadrangle sheets. No information on design hydrology is available.

b. Adequacy

The conclusions presented in this report are based on field measurements, the available engineering data, past performance and present condition of the dam. The available data including the field measurements taken by the field inspection team are considered adequate to evaluate the hydraulic and hydrologic capabilities of the dam. Seepage and stability analyses comparable to the requirements of the "Recommended Guidelines for Safety Inspection of Dams" were not available, which is considered a deficiency. These seepage and stability analyses should be performed for appropriate loading conditions (including earthquake loads) and made a matter of record.

c. Validity

A four page set of engineering drawings were available for review. From field measurements and conversations with representatives of the owner, the dam appears to have been constructed according to the available drawings.

SECTION 3: VISUAL INSPECTION

3.1 Findings

a. General

A visual inspection of the Teal Lake Dam was made on July 10, 1980. The following persons were present during the inspection:

Name	Affiliation	Disciplines
Dr. M.A. Samad	PRC Engineering Consultants, Inc.	Project Engineer Hydraulics and Hydrology
Mark Haynes, P.E.	PRC Engineering Consultants, Inc.	Civil and Mechanical
Razi Quraishi, R.P.G.	PRC Engineering Consultants, Inc.	Geology
Zoran Batchko	PRC Engineering Consultants, Inc.	Soils
Kevin J. Blume	Consoer, Townsend & Assoc., Ltd.	Civil and Structural
Jim Dalton	A.P. Green Refractories, Co.	
Jim Maunder	A.P. Green Refractories, Co.	
Dennis Hammen	A.P. Green Refractories, Co.	

Specific observations are discussed below.

b. Dam

The top and the downstream slope of the embankment do not have a protective vegetative cover. The surficial soil covering the embankment is known locally as Missouri Flint Clay and apparently has little erosion resistance in its present state without vegeta-Deep erosion channels and gullies are evident on the interface between the embankment and abutment contacts, especially on the downstream slope. The downstream slope is fairly steep which would seem to accelerate the erosion on the slope. The right abutment area with vegetative cover is less eroded. The left downstream abutment does not have any vegetative cover and has been eroded severely (see Photos 7 and 8). Several small trees were observed growing on the right side of the downstream slope. These trees appeared to be tipped in the downstream direction. No signs of instabilities, such as cracks, bulges or depressions, were apparent either on the top of dam or downstream slope. However, the erosion of the downstream slope does effect the stability of the slope. According to Mr. Dalton, the dam has been overtopped and this could be the reason for the severe erosion on the downstream slope. No seepage was apparent through the embankment, however, due to the elevation of the tailwater it could not be determined if there was any seepage through the foundation.

The upstream slope does not have any protective vegetative cover against surface runoff and wave action outside of the headwall of the spillway. However, no major erosional problems were observed. The upstream slope appeared to be stable with no apparent signs of instabilities.

The right abutment slopes gently upward from the top of dam while the left abutment is at approximately the same elevation as the top of dam. No signs of instabilities were observed on either abutment, however, the erosion on the left abutment does pose a danger to the abutment.

No evidence of burrowing animals was observed on either of the abutments or the embankment.

c. Project Geology and Soils

(1) Project Geology

The damsite is located on an unnamed tributary of the South Fork of the Salt River in the Dissected Till Plains Section of the central Lowland Physiographic Province. Loess-mantled Kansas drift covers the surface of most of the Dissected Till Plains Section. This section is distinguished from the Young Drift Section to the north and from the Till Plains on the east by the stage it has reached in the post-glacial erosion cycle. Broadly generalized, this section is a nearly flat till plain submature to mature in its erosion cycle.

The topography at the damsite is rolling with gentle slopes and U-shaped valleys. Elevations of the ground surface range from 765 feet above M.S.L. at the damsite to 800 feet above M.S.L. approximately 0.5 mile southeast of the damsite. The reservoir slopes are in the range of 7° to 13° from the horizontal at the northern side, and in the range of 20° from the horizontal at the eastern and southern sides of the reservoir. The reservoir slopes appear to be stable and free from any potential slide activity. The area at the damsite is covered with slope wash of glacial-fluvial deposits and loess.

The regional bedrock geology beneath the glacial outwash deposits in the damsite area as shown on the Geologic Map of Missouri (1979), (see Plate 7), consists of Pennsylvanian Pleasanton-Marmaton-Cherokee Group (cyclic deposits of shale, limestone, and sandstone). Mississippian Burlington Formation and Chouteau Group Rocks, Devonian Sulphur Springs Group consisting of Bushberg Sandstone, Glen Park Limestone, Grassy Creek Shale, and Ordovician age rocks consisting of Noix Limestone and St. Peter Sandstone.

The predominant bedrock in the site vicinity underlying the glacial fluvial deposits are the Pennsylvanian Marmaton Group rocks. Inlet and outlet areas of the unnamed tributary of the South Fork Salt River contains Quaternary alluvium.

No faults have been identified in the vicinity of the damsite. The closest trace of a fault to the damsite is the Kingdom City Fault nearly 12 miles south of the damsite. The Kingdom City Fault had its last movement in post-Ordovician time. Thus the fault has no effect on the damsite.

Teal Lake Dam consists of a homogeneous earthfill embankment with a corrugated metal pipe-arch spillway. Based on the available drawings, reports, conversations with Mr. Jim Manunder (Manager of Manufacturing, A. P. Green Refractories) and from the visual inspections, the embankment rests on glacial-fluvial deposits (brown, silty clay) with a core trench excavated into the glacial-fluvial deposits. The five corrugated metal pipe-arches of the spillway rest on the compacted embankment fill (reddish brown, silty clay).

(2) Project Soils

According to the "Missouri General Soil Map and Soil Association Descriptions" published by the Soil Conservation Service, the materials in the general area of the dam belong to the soil series of Putnam-Mexico in the Central-Claypan Area family. These soils are basically formed from loess. The permeability of these soils is generally very low.

Materials were obtained from the exposed left upstream slope and abutment. Both locations were within 25 feet of either side of the concrete headwall. The materials removed appeared to be a mottled red and brown, moderately plastic, sandy to silty clay with a few fine gravels. Based on the Unified Soil Classification, the soil would probably be classified as a CL-CH. This soil type

generally has the following characteristics: impervious with a coefficient of permeability less than 50 feet per year, medium shear strength, and intermediate to high piping resistance. This soil is purportedly what was used to construct the embankment. The extent of surficial soil covering was not determined. The surficial soil known as "Missouri Flint Clay" appears to be gray, low plasticity, clayey silt with little erosonal resistance.

d. Appurtenant Structures

(1) The Spillway

On the day of the inspection, water was flowing through four out of the five pipe-arches, which hampered a comprehensive inspection; however, the majority of the interiors of each pipe was visible. The pipe on the far left side of the spillway did not have water flowing through it and a few problems were observed. A bulge on the top of the pipe was observed about midway through the conduit. It was undetermined whether the bulge was due to a failure of the pipe or the pipe was damaged during construction. The pipe to the right of this pipe also had a bulge in it but it was in the bottom of the conduit. No other pipe exhibited this problem. the pipe on the far left side, two, 1-foot square sections of the pipe were cut out of the bottom and embankment material was exposed. It appeared that no embankment material has been transported through the pipe nor was undermining of the pipe apparent. Rusting of the pipe was also observed in the bottom of the conduit. The rust has progressed to the point where it is starting to eat through the pipe; however, no holes in the pipe were observed. This condition appears to be common in the remaining four pipes; however, the extent of deterioration could not be determined. The outlet end of the pipes extended out from the embankment from 5 to 10 feet and the pipes were unsupported for this length (see Photo 3). However, it appeared that no undermining of the outlet of the pipes has occurred and that the pipes were probably constructed this way. The headwall on the upstream end of the spillway appeared to be stable and no

major problems associated with the structure were apparent. Some erosion, due to surface runoff, was observed along the contact between the right wingwall of the headwall and the dam embankment (see Photo 10). The trashrack appeared to be secure and unobstructed. The pipe-arches were also unobstructed. No seepage was observed around the outlets of the spillway pipes.

(2) Outlet Works

There were no regulated outlet works or low level outlets constructed for this dam.

e. Reservoir Area

The reservoir water surface elevation at the time of inspection was approximately 753 feet above M.S.L.

The surface area of the reservoir at normal water level is about 67 acres. The rim seems to be stable with only one severely eroded area noted. The left abutment upstream slope is generally eroded with nearly vertical slopes up to 4 feet high. The land around the reservoir slopes gently to the rim and is grass and/or tree covered (see Photo 12). There are no homes built in close proximity to the reservoir. No evidence of excessive siltation was observed in the reservoir at the time of inspection of the reservoir.

f. Downstream Channel

The downstream channel which carries discharges from the spillway is a wide well defined channel. The channel is obstructed by tall trees and heavy vegetation (see Photo 11). These obstructions will reduce the hydraulic efficiency of the channel. The channel is approximately 25 feet wide, 4 feet deep and has a side slope of 1V to 1H on both sides.

3.2 Evaluation

The visual inspection did not uncover any items that are sufficiently significant to indicate for immediate remedial action. However, the following items were noted by the inspection team that could affect the safety of the dam and the spillway if not attended to within a reasonable period of time.

- The severe erosion on the downstream slope, if allowed to continue, could pose a danger to the stability of the dam.
 The steepness of and the very sparse vegetation cover on the downstream slope also appear to be catalysis for further erosion.
- 2. The erosion on the left abutment contact also could have an adverse effect on the stability of the dam, if allowed to continue. The left abutment area is also fairly steep in the area of the erosion.
- 3. The small trees observed on the downstream slope pose a potential danger to the safety of the dam, if allowed to grow. Depending upon the extent of the root system, the roots of large trees can present possible paths for piping through the embankment. The root systems can also do damage to the embankment from being uprooted by a storm.
- 4. The unprotected upstream slope does not appear to affect the safety of the dam at this time. However, the slope may be subject to erosion due to surface runoff and wave action.
- 5. It was undetermined whether the bulges observed in the two pipes on the left side of the spillway were due to a failure of the pipes or were damaged during construction. If this condition is indeed due to a failure of the pipes, this could have an adverse effect on the structural integrity of the dam and spillway.

- 6. The two sections which were cut out of the bottom of the pipe on the far left side of the spillway can allow embankment material to be transported through the pipe during excessive flows through the pipe, causing a void to be created under the pipe. The holes could also allow water to flow under the pipe and cause the pipe to be undermined. Both of these conditions could lead to a collapse of the pipe and the embankment over the pipe.
- 7. The observed rusting of the bottom of the pipe could cause holes to develop in the pipe in which the same conditions as described above could develop, if the rusting is allowed to continue.
- 8. The erosion observed near the right wingwall of the headwall does not appear to affect the structural stability of the dam and spillway in its present condition.

SECTION 4: OPERATIONAL PROCEDURES

4.1 Procedures

Teal Lake Dam is used to impound water from rainfall and runoff for recreational purposes only. There are no specific procedures which are followed for the operation of the dam. The water level below the spillway crest is controlled by rainfall, runoff, and evaporation.

4.2 Maintenance of Dam

The dam is maintained by employees of A. P. Green Refractories Co. During periods of heavy rainfall, the maintenance personnel periodically check the dam. The truck haul road on the crest is also periodically maintained by A. P. Green workmen. There are, however, many trees growing on the downstream slope. The trashrack of the spillway is periodically cleaned by A. P. Green personnel.

4.3 Maintenance of Operating Facilities

There are no operating facilities associated with this dam.

4.4 Description of Any Warning System in Effect

The inspection team is not aware of any warning system in use at the damsite.

4.5 Evaluation

The maintenance at Teal Lake Dam appears to be fair and the remedial measures described in Section 7 should be undertaken to improve the condition of the dam.

SECTION 5: HYDRAULIC/HYDROLOGIC

5.1 Evaluation of Features

a. Design

No hydrologic and hydraulic design data is available for Teal Lake Dam. The sizes of physical features utilized to develop the stage-outflow relation for the spillway and overtopping of the dam were prepared from field notes and sketches prepared during the field inspection. The reservoir elevation-area data were based on the U.S.G.S. Mexico West and Mexico East, Missouri Quadrangle topographic maps (7.5 minute series). The spillway and overtop release rates and the reservoir elevation-area data are presented in Appendix B.

The hydrologic soil group of the watershed was determined from information available in the U.S.D.A. Soil Conservation Service publication "Missouri General Soil Map and Soil Association Descriptions", 1979. The Probable Maximum Precipitation (PMP) used to determine the Probable Maximum Flood (PMF) was determined by using the U.S. Weather Bureau publication, "Hydrometeorological Report No. 33" (April 1956).

b. Experience Data

It is believed that records of reservoir stage or spill-way discharge are not maintained for this site. However, according to the representatives of the owner, the dam was overtopped by 1-1/2 feet at the lowest spot in 1970.

c. Visual Observations

Observations made of the spillway during the visual inspection are discussed in Section 3.1d and evaluated in Section 3.2.

d. Overtopping Potential

Both the Probable Maximum Flood and one-half of the Probable Maximum Flood when routed through the reservoir, resulted in overtopping of the dam. The peak inflows for the PMF and onehalf of the PMF are 24,908 cfs and 12,454 cfs, respectively. peak outflow discharges for the PMF and one-half of the PMF are 24,544 and 12,190 cfs, respectively. The maximum capacity of the spillway just before overtopping the dam is 1,327 cfs. overtopped the dam by 4.52 feet and one-half of the PMF overtopped the dam by 3.16 feet. The total duration of flow over the dam is 14.25 hours during the PMF and 9.25 hours during one-half of the The reservoir/spillway system of Teal Lake Dam is capable of accommodating a flood equal to approximately 12 percent of the PMF just before overtopping the dam. The reservoir/spillway system of Teal Lake Dam will not accommodate the ten percent-chance flood The dam embankment may be susceptible to without overtopping. erosion due to the high velocity of flow during overtopping.

The failure of the dam could cause extensive damage to the property downstream of the dam and possible loss of life. The estimated damage zone extends approximately two miles downstream of the dam. There are two dwellings, three buildings, one railroad bridge, and a school within the damage zone.

SECTION 6: STRUCTURAL STABILITY

6.1 Evaluation of Structural Stability

a. Visual Observations

There were no signs of settlement on the embankment. Items of distress include steep downstream and left abutment slopes, and severe erosion of the left abutment/embankment contact and downstream embankment face. Due to the presence of tailwater, it was not possible to ascertain if there is seepage beneath the embankment; however, there were no signs of seepage on the downstream face or around the five spillway pipes. The trees on the downstream slope are tipped downstream, which is indicative of possible surface sloughing or possible addition of fill material. In addition, the face of the reservoir rim to the left of the spillway headwall is eroded. In the absence of the seepage and stability analyses, no quantitative evaluation of the structural stability can be made.

The spillway pipe-arches appear to be stable with the exception of the bulges observed in two of the pipes. Nevertheless, it was unknown whether the condition is due to a failure of the pipes or the pipes were damaged during construction. The spillway system appears to be able to function properly.

b. Design and Construction Data

Design computations pertaining to the embankment were not available during the report preparation phase. Design drawings pertaining to the 1966 reconstruction of the dam were available and from field measurements, the dam and spillway appeared to be built accordingly. Nevertheless, the design drawings were of limited use

in assessing the structural stability of the dam and the spillway. Seepage and stability analyses comparable to the requirements of the "Recommended Guidleines for Safety Inspection of Dams" were not available. No embankment or foundation soil parameters were available for carrying out a conventional stability analysis on the embankment. No construction data or specifications relating to the degree of embankment compaction were available for use in a stability analysis.

c. Operating Records

No operating records were available relating to the dam or appurtenant structures. The water level on the day of the visual inspection was approximately one inch above the spillway crest. The spillway crest is considered to be the normal operating level; however, the dam has been overtopped by approximately 1-1/2 feet during a flood in 1970. The reservoir would normally be controlled at the level of the crest of the spillway.

d. Post Construction Changes

Several post construction changes to the reconstructed embankment (1966) have been made which could have some affect on the structural stability of the dam and spillway. In 1967 and 1969, remedial measures were undertaken to prevent leakage around the corrugated metal pipe-arches. The measures taken were pressure grouting around the pipes in 1967, which required additional grouting in 1969 to fill voids around the pipes, and in 1967 a sheet piling wall was provided upstream of the pipes as a cutoff wall. The concrete apron which was placed under the pipes and extended out to the sheet piling, was also constructed at the same as the sheet piling wall. According to Mr. Dennis Hammen, the piles were driven into the hard, clay foundation of the dam at a depth of 20 to 25 feet. The concrete headwall was placed at the upstream end of the spillway in 1969. All of these 'remedial measures appear to have been beneficial to the structural stability of the dam and the spillway. The grouting operations and sheet piling wall appear to have stopped the leakage, which was a problem in 1967 and 1969 and has prevented further leakage. All of these remedial measures are shown on Plates 3 and 4 as revisions. No other post construction changes are known to exist.

e. Seismic Stability

The dam is located in Seismic Zone 1 (see Plate 9), as defined in "Recommended Guidelines for Safety Inspection of Dams" prepared by the Corps of Engineers, and will not require a seismic stability analyses. An earthquake of the magnitude that would be expected in Seismic Zone 1 will not cause significant distress to a well designed and constructed earth dam. Available literature indicates that no active faults exist near the vicinity of the dam site.

SECTION 7: ASSESSMENT/REMEDIAL MEASURES

7.1 Dam Assessment

The assessment of the general condition of the dam is based upon available data and visual inspection. Detailed investigations, testing and detailed computational evaluations are beyond the scope of a Phase I investigation; however, the investigation is intended to identify any need for such studies.

It should be realized that the reported condition of the dam is based upon observations of field conditions at the time of inspection along with data available to the inspection team.

It is also important to note that the condition of a dam depends upon numerous and constantly changing internal and external conditions, and is evolutionary in nature. It would be incorrect to assume that the present condition of the dam will continue to represent the condition of the dam at some point in the future. Only through continued care and inspection can there be assurance that an unsafe condition could be detected.

a. Safety

The spillway capacity of Teal Lake Dam is found to be "Seriously Inadequate". The reservoir/spillway system will accommodate approximately 12 percent of the PMF without overtopping the dam. The surface soils in the embankment appear to be clayey silt. The dam embankment is not protected against erosion. The dam is overtopped by 4.52 feet during the occurrence of the PMF. The dam may be susceptible to erosion due to overtopping of the dam during the PMF and one-half of the PMF.

The dam appears to be in poor condition. The downstream face and left abutment area pose a serious problem. Indications are that surficial sloughing of the slopes is an ongoing event. hazard posed is that if a major slope failure in either of these areas should occur, the event would probably result in blocking of the spillway conduits. In addition, the deep erosion channels reduce the safety factor for the respective slopes. A quantitative evaluation of the safety of the embankment could not be made in view of the absence of seepage and stability analyses. The present embankment and appurtenant structures, however, reportedly have performed satisfactorily since their reconstruction; there have been no failures. The dam was overtopped by 1-1/2 feet at the lowest spot in 1970. The safety of the dam can be improved if the deficiencies described in Sections 3.2 and 6.1a and above are properly corrected as described in Section 7.2.

b. Adequacy of Information

The conclusions presented in this report are based upon field measurement, past performance and the present condition of the dam. Some information on the design of the dam was available, and this information was considered good. However, the design drawings were of limited use in the assessment of the overall safety of the dam and the spillway. Some data from this information were used for Phase I hydrologic and hydraulic evaluation of the dam. However, seepage and stability analyses comparable to the requirements of the "Recommended Guidelines for Safety Inspection of Dams" were not available, which is considered a deficiency.

c. Urgency

The remedial measures recommended in Paragraph 7.2 should be accomplished within a reasonable period of time, and the item recommended in paragraph 7.2a should be pursued on a high priority basis.

d. Necessity for Phase II Inspection

Based upon results of the Phase I inspection, a Phase II inspection is not felt to be necessary.

7.2 Remedial Measures

a. Alternatives

One of the following mitigation measures should be undertaken to avoid severe consequences of dam failure from overtopping.

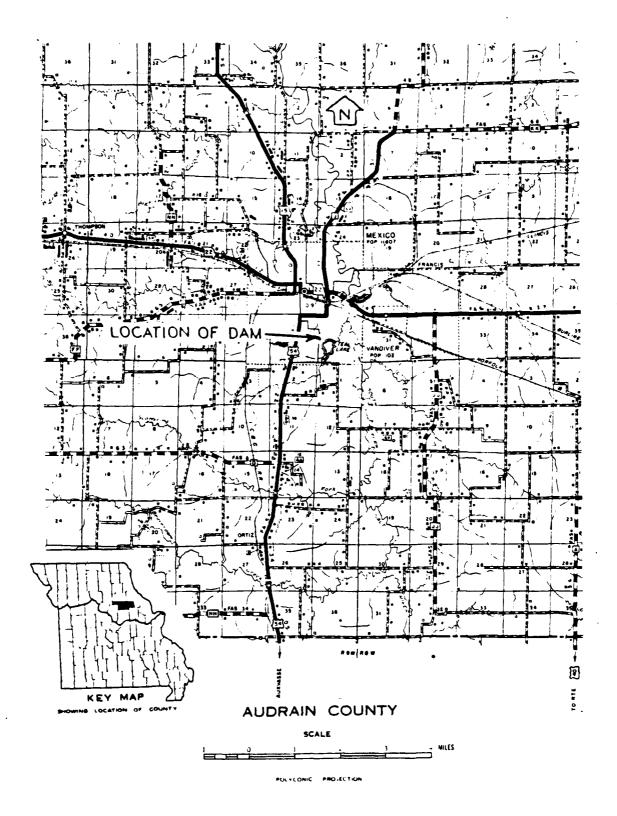
- l. Increase the spillway capacity to pass the Probable Maximum Flood without overtopping the dam.
- 2. Increase the height of the dam enough to pass the PMF without overtopping the dam. An investigation should also be done that includes studying the effects of increasing the height of the dam on the structural stability of the embankment. The overtopping depth during the occurrence of the PMF, stated in Section 5.1d, is not the required or recommended increase in the height of the dam.
- 3. A combination of 1 and 2 above.

b. 0 & M Procedures

- The erosion on the downstream slope and the left abutment should be properly protected from further damage.
- 2. Reduce the downstream embankment and left abutment slopes to not less than IV to 2H which could also help alleviate the erosional problems.
- 3. Provide a protective cover, such as seeding with grass, on the embankment and abutment areas which will improve the erosion resistance to surface runoff.
- 4. Clear the small trees from the downstream slope and prevent them from growing back on the slope. The clearing of the trees should be done under the supervision of an engineer experienced in the design and construction of earth dams.
- 5. The upstream slope should also be adequately protected from surface runoff and wave action.
- 6. Monitor the bulges observed in the two pipes of the spillway to determine the cause of the bulges. If they are due to a failure of the pipes, corrective measures should be taken to control the situation.
- 7. Protective measures should be taken to protect the two areas of exposed embankment inside the pipe on the far left side of the spillway where the one-foot square sections of the pipe were removed. It should also be determined whether the same condition exists in the remaining four pipes.

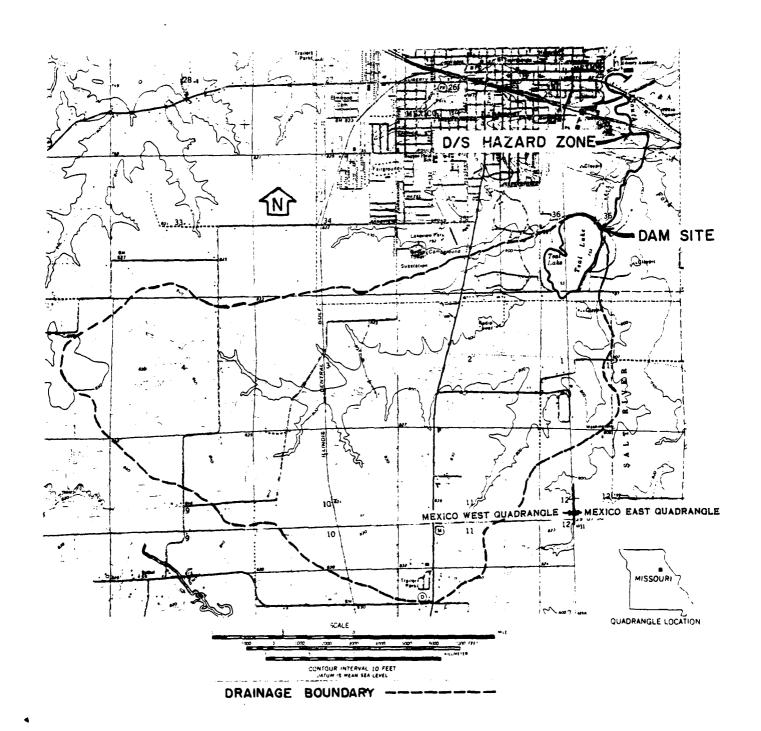
- 8. The rusting in the bottom of the pipes should be properly repaired and protected from further deterioration.
- 9. The erosion along the contact between the right wingwall of the headwall and the embankment should be backfilled and the area properly protected from further damage.
- 10. Seepage and stability analyses should be performed by a professional engineer experienced in the design and construction of earth dams.
- 11. The owner should initiate the following programs:
 - (a) Periodic inspection of the dam by a professional engineer experienced in the design and construction of earth dams.
 - (b) Set up a maintenance schedule and log all visits to te dam for operation, repairs and maintenance.

PLATES



LOCATION MAP - TEAL LAKE DAM

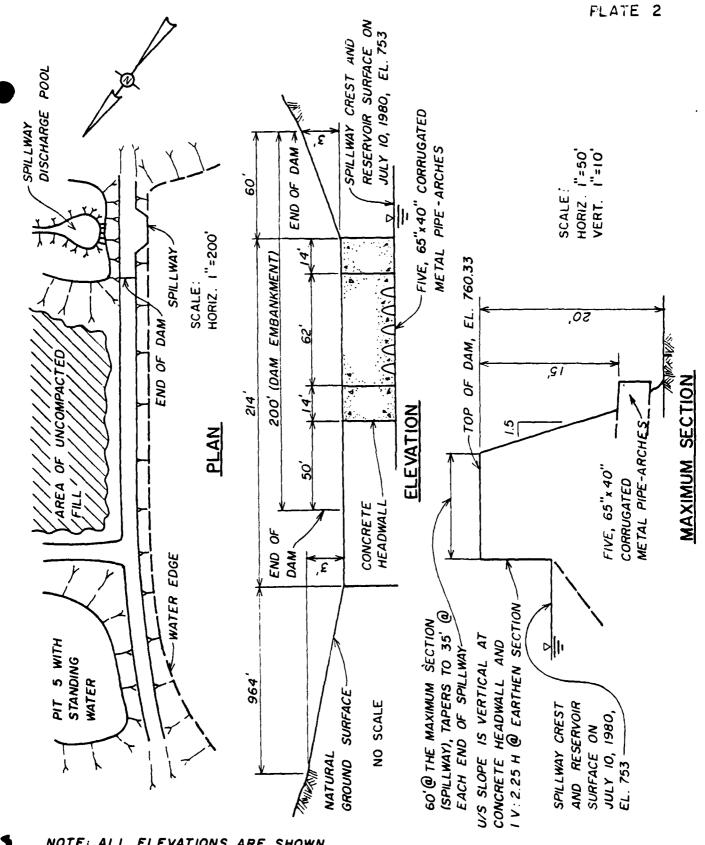
MO.10082



TEAL LAKE DAM (MO. 10082)

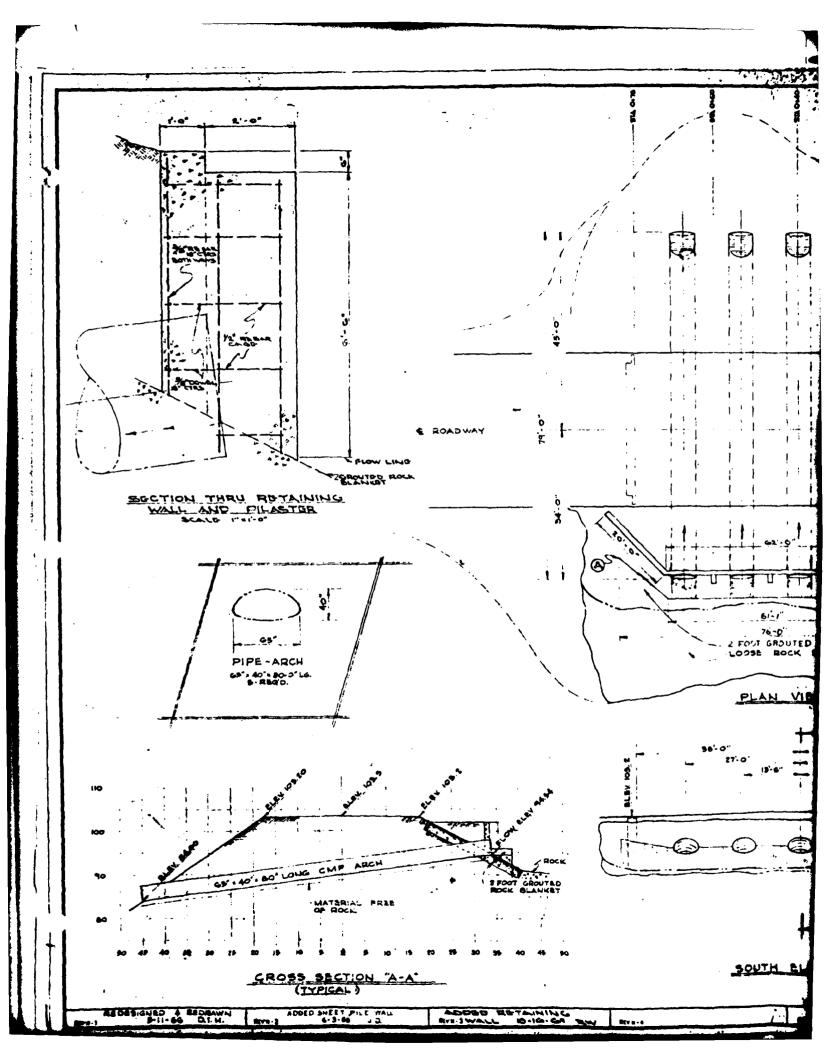
DRAINAGE BASIN AND

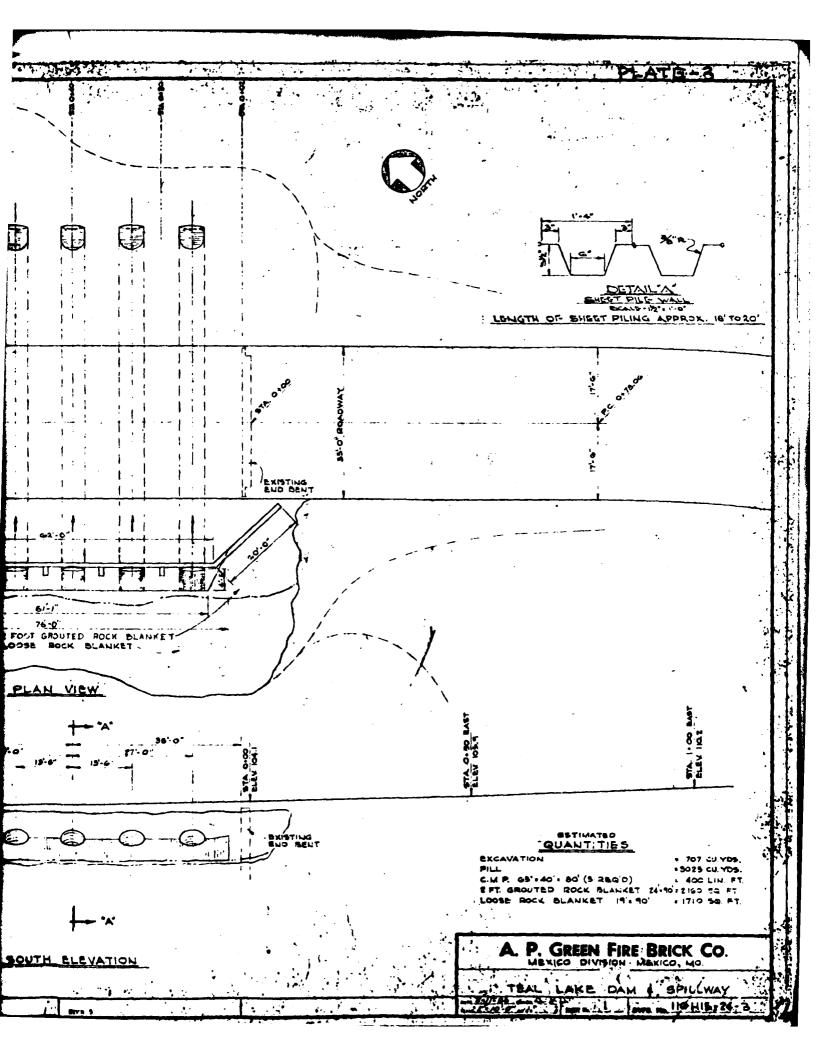
DOWNSTREAM HAZARD ZONE

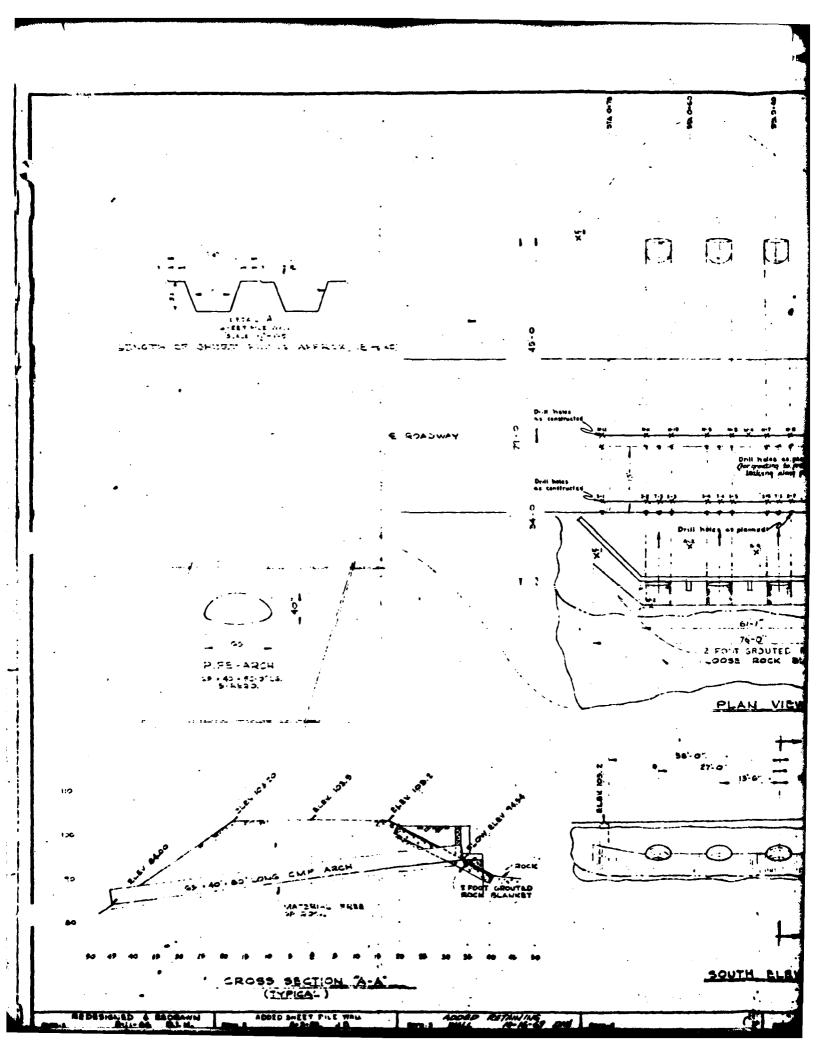


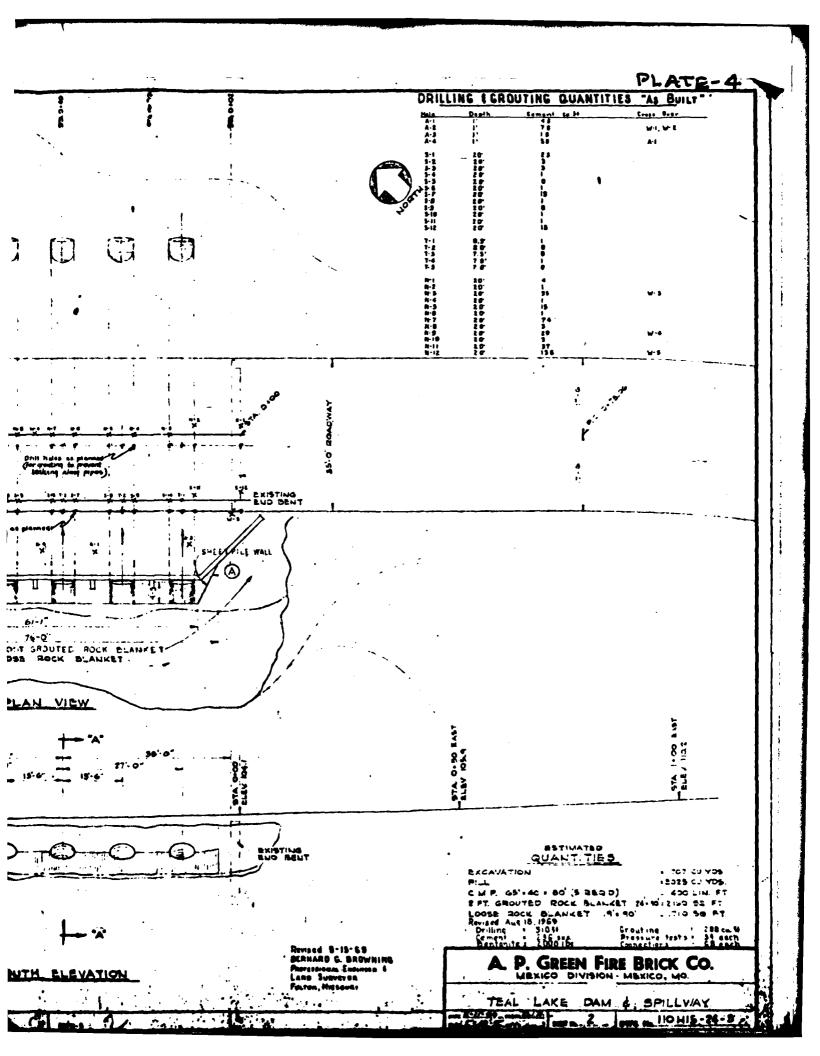
NOTE: AL **ELEVATIONS** SHOWN ARE FEET ABOVE M.S.L.

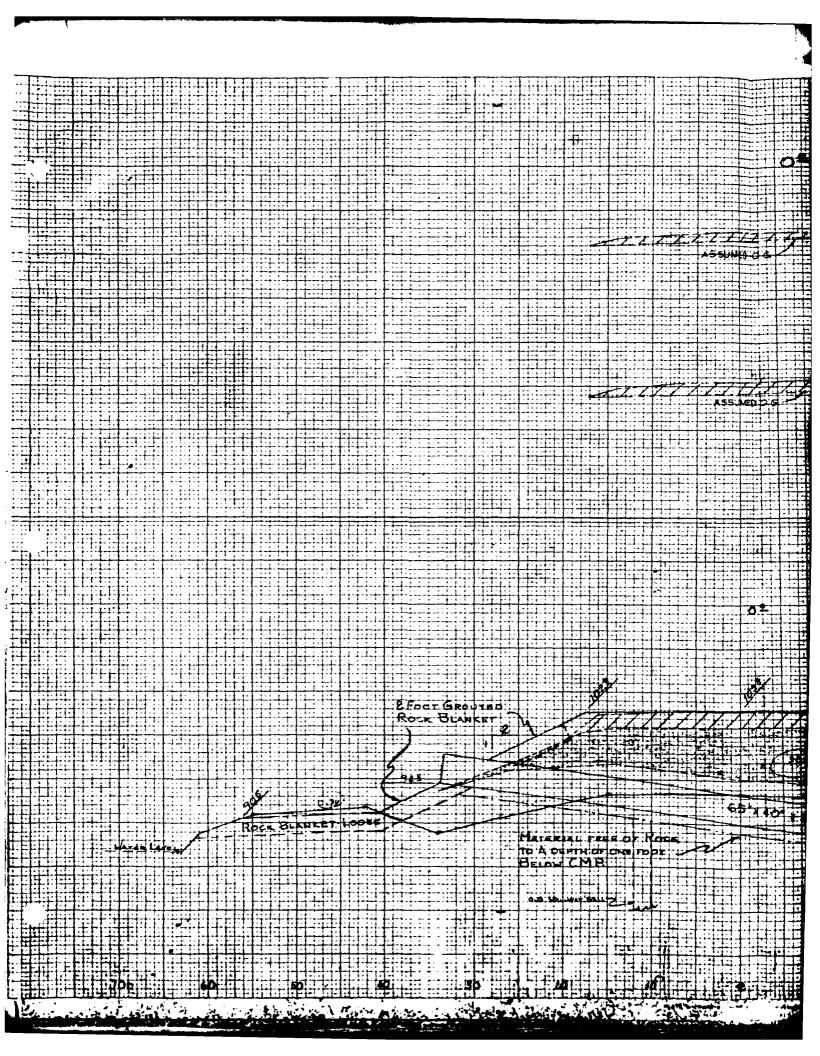
> TEAL LAKE DAM (MO. 10082) **ELEVATION MAXIMUM SECTION** OF EMBANKMENT

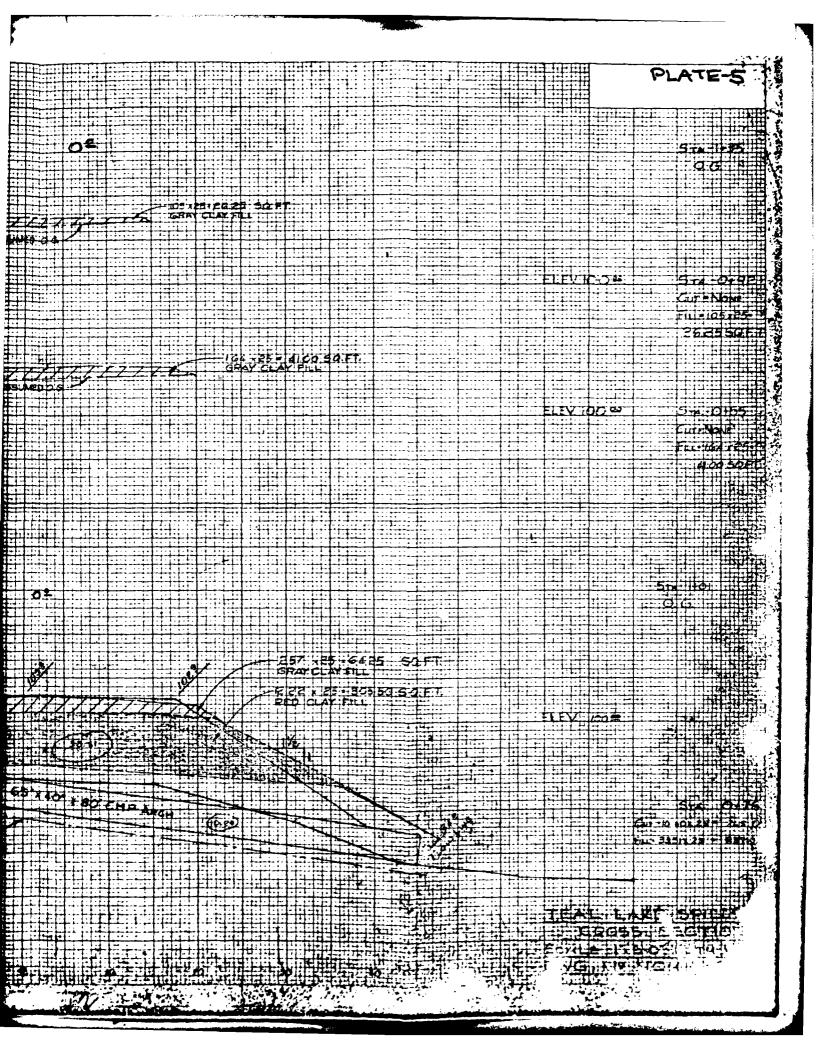


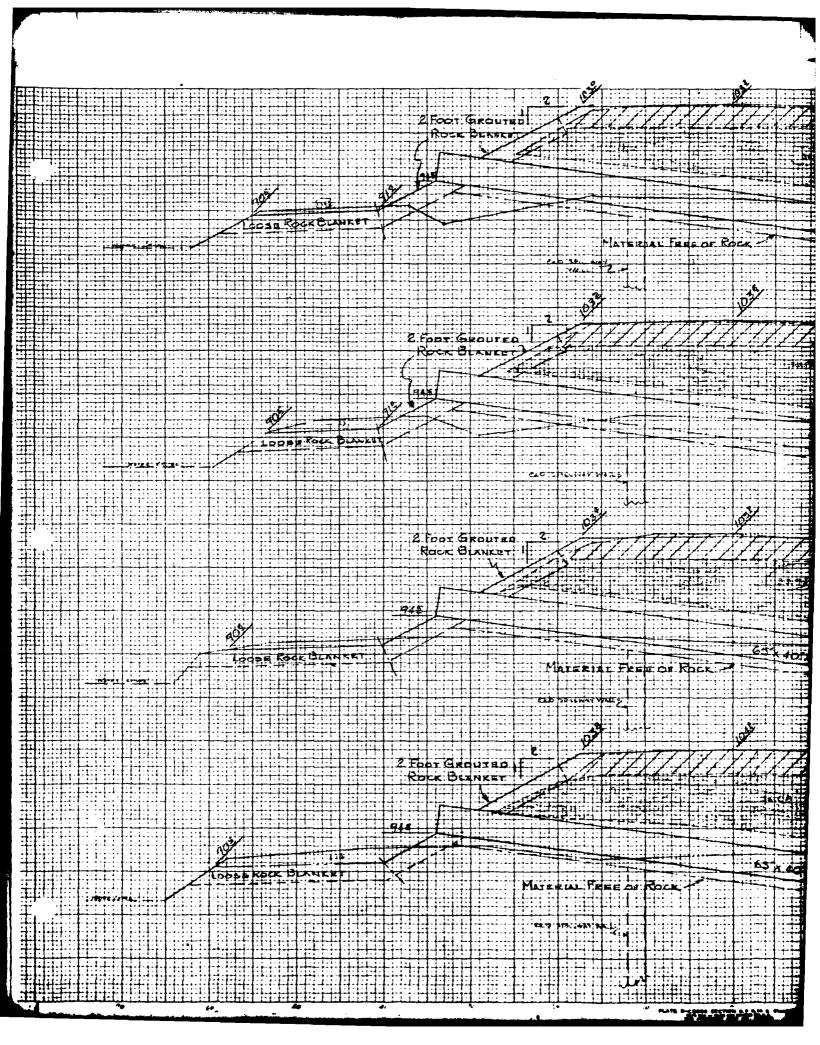


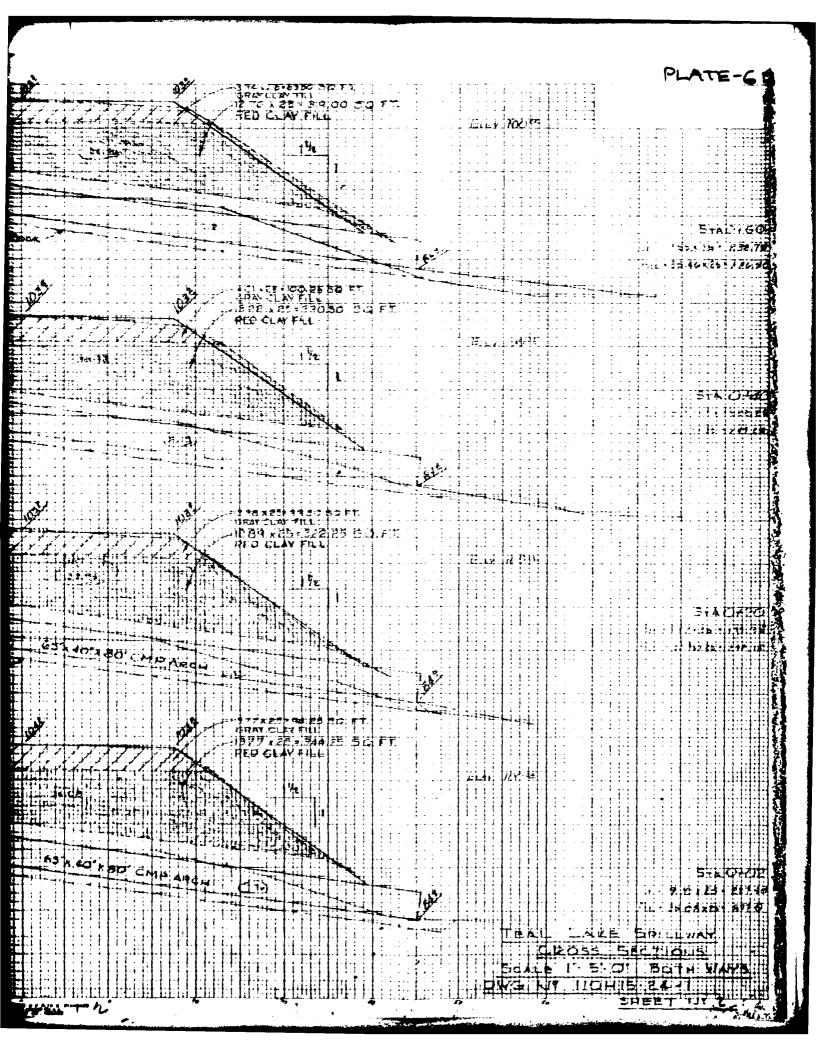


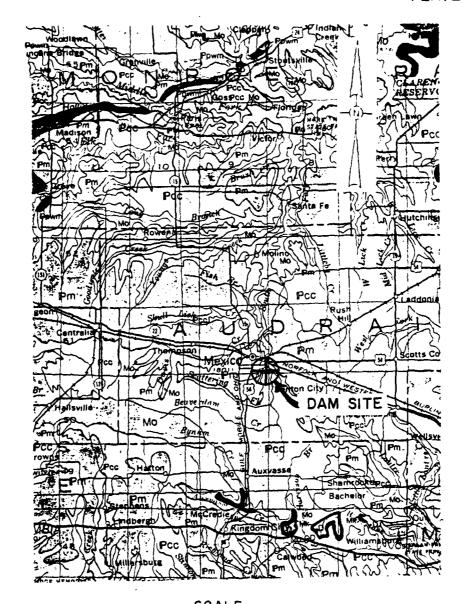


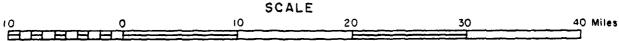












D LOCATION OF DAM

NOTE: LEGEND OF THIS DAM IS ON PLATE 8

REFERENCE:

GEOLOGIC MAP OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI GEOLOGICAL SURVEY
KENNETH H. ANDERSON, 1979

REGIONAL GEOLOGICAL MAP OF TEAL LAKE DAM

TEAL LAKE DAM PLATE 8

LEGEND

PERIOD	SYMBOL	DESCRIPTION
QUATERNARY	Qaí	ALLUVIUM: SAND, SILT, GRAVEL
PENNSYLVANIAN	{PP w m	PLEASANTON GROUP: CYCLIC DEPOSITS OF SANDSTONE, SHALE AND LIMESTONE
	Pm	MARMATON GROUP: CYCLIC DEPOSITS OF SHALE, LIMESTONE AND SANDSTONE
	Pcc	CHEROKEE GROUP: CYCLIC DEPOSITS OF SHALE, LIMESTONE AND SANDSTONE
MISSISSIPPIAN	Mo	KEOKUK - BURLINGTON FORMATION: CHERTY GRAYISH BROWN SANDY LIMESTONE
	Mk	CHOUTEAU GROUP: COMPTON AND BACHELOR FORMATION (LIMESTONE AND SHALE)
DEVONIAN	D	SULPHUR SPRING GROUP: BUSHBERG SANDSTONE GLEN PARK LIMESTONE, GRASSY CREEK SHALE
	(
ORDOVICIAN	{ou	NOIX LIMESTONE
	Osp	ST. PETER SANDSTONE

APPENDIX A

PHOTOGRAPHS

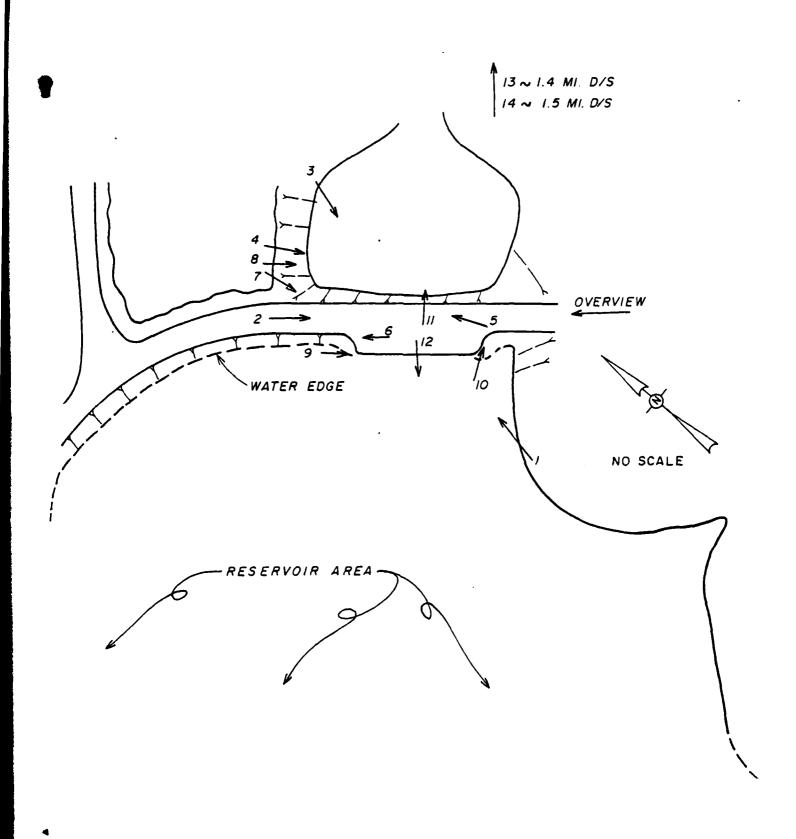


PHOTO INDEX FOR TEAL LAKE DAM

Teal Lake Dam Photographs

- Photo 1 View of the upstream slope showing the entrance to 5 corrugated metal pipe-arches.
- Photo 2 View of the top of dam.
- Photo 3 View of the downstream slope showing the erosion on the slope and the outlet ends of the pipe-arches.
- Photo 4 View of the downstream slope showing the growth of vegetation on the right side of the embankment.
- Photo 5 View across the top of dam showing the downstream area of the left abutment.
- Photo 6 View of the upstream slope to the left of the spillway.
- Photo 7 View of the surface runoff erosion on the left side of the embankment looking back toward the reservoir.
- Photo 8 View of the erosional gully in Photo 7 as it turns and heads toward the downstream channel.
- Photo 9 View of the entrance to the 5 corrugated metal pipe-arches showing the trashrack and the retaining wall.
- Photo 10 View of the erosion along the contact of the right wingwall of the retaining wall and the embankment.
- Photo 11 View of the downstream channel.
- Photo 12 View of the reservoir and rim.

- Photo 13 View of several buildings believed to be in the downstream hazard zone with the downstream channel in the background.
- Photo 14 View of the Military school believed to be in the downstream hazard zone with the downstream channel to the right of the photo.



Photo 1



Photo 2



Photo 3



Photo 4



Photo 5



Photo 6





Photo 7



Photo 9



Photo 10



Photo 11



Photo 12



Photo 13



Photo 14

APPENDIX B

HYDROLOGIC AND HYDRAULIC COMPUTATIONS

TEAL LAKE DAM

HYDROLOGIC AND HYDRAULIC DATA, ASSUMPTIONS AND METHODOLOGY

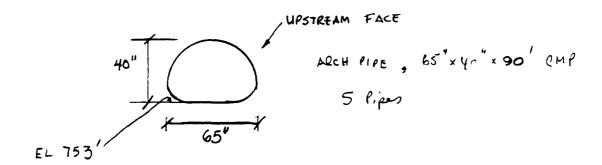
- SCS Unit Hydrograph and HEC-1DB are used to develop the inflow hydrographs, and the hydrologic inputs are as follows:
 - (a) Twenty-four hour probable maximum precipitation from Hydrometeorological Report No. 33, 48-hour 100-year rainfall and 48-hour 10-year rainfall of Moberly, Missouri.
 - (b) Drainage area = 6.43 square miles.
 - (c) Lag time = 1.55 hours.
 - (d) Hydrologic Soil Group: Soil Group "D"
 - (e) Runoff curve number:
 CN = 83 for AMC II and CN = 93 for AMC III.
- 2. Spillway release rates are based on pipe flow assuming Manning's n = -0.025. Flow rates over the dam are based on broad crested weir equation $Q = CLH^{3/2}$.
- Floods are routed through Teal Lake to determine the capability of its spillway.

TEAL LAKE DAM (MO 10932) SPILLMAY RATING CURVE TO 1732457 17 - WSEL - 743.47	FOR ENGINEERING	CONSULTANTS . INC.
TEAL LAKE DAM (MO 10852) 5PILLWAY RATING CURVE 17 - WSEL - 743.67	DAM SAFETY INSPECTION - MISSOURI	SAEET NONT
PRILLIP RATING CURVE 1 1 - WSEL - 743.67	TEAL LAKE DAM (MO 10882)	
HT = WSEL - 743.67	SPILLWAY RATING CURVE	31 DC : 7/22/80
~	SPILLWAY RATING CURVE	HT = WSEL - 743.67
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·B-3

	LAKE DAM (MG 10082)	SHEET NO
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DAM SAFETY INSPECTION - MISSOURI	SHEET NO3F
TEAL LAKE DAM (MO 10082)	03 NO
SPILLWAY RATING CURVE	3' DC : -= 7/22/80



For flows before pressure flow and assuming critical depth we have:

Total area of pipe = 14.3 ft?

Уc	Ac*	Q;²	Vc	V:/29	WSEL
,	4.01{	25	6.25	.61	754.6
1.2	5.15	33	6.41	: .64	754.84
1.4	6.44	45	6.99	.76	755.16
1.6	7.51	56	7.46	.86	755.46
1.8	9.0	68	3.26	89	755.69
2.0	10.01	82	8.19	1.04	756.04
2.2	19.87	95	8.74	1.19	756.38
2.4	11-73	112	9.55	1.42	756.81
2.6	12.58	130	10 33	1.66	757,25
5.8	13.23	150	11-3 4	2.00	757.79
3.0	13-73	180	13.11	2.67	758.67
3.2	14.01	208	14.85	3.72	759,62

"Proportional Values Based on Full Conditions" graph. Handbook of Steel Drainage and Highway Construction Products, pg. 170., AISI

*2 Obtained fromAISI book pg. 185

For pressure flow we have

DAM	SAFETY T	LNSPE	CTION /MI			SHEET NO	OF
TEAL !	AKE DAM		10082)			JOB NO. 1263)
	INED RA	TING	CURVE			BYD	ATE 7/22/83
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		12 / 7		CI I			
	Datum = 7	43.67	for pressure	TION	•		• • • • • • • • • • • • • • • • • • • •
		1-1-1	5 PIGES				
			.x\$				
- - -	Reservoir	1-1,1-	Principal_	Emergency	Discharge	Combined	, .
	Water	H_{τ}		Spillway!	Over Top	Discharge	and of
	Surface Elev.	1	Discharge Q: 65 VHT	Discharge	of Dam		; •= =+-
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	757.79	III	1040			1040	
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	761.93	18.17	1385		2276	3661	
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DAM SAFETY INSPECTION - MISE	SHEET NO OF
Dam Name: (3)	/ID NO.: >> JOB NO
RESERVOIR ELEVATION - AREA	DATA BY DATE

	ELEV. (M.S.L.) . (Ft.)	RESERVOIK SURFACE AREA (Acres)	Remarks
	745	0	Estimated streambed
	753	67	Spillway Crest.
:	760	129	Measured on USGS Mays
	760.33	132	Top of Dam
	770	232.5	Measured on USGS Map
		·	
			· · · · · · · · · · · · · · · · · · ·

B-7

DAM SAFETY INSPECTION MISSOURI	SHEET NO _ OF
DAM NAME: TEAL LAKE DAM (MO 10082)	. JOB NO. 1263
UNIT HYDROGRAPH PARAMETERS	BY DC DATE 7/22/80
	A.C.
1) DRAINAGE AREA , A = 6.43, 69. mi = (4114 acres)	
2) LENGTH OF STREAM , L = (123 " × 2000 " = 24600"	1
3) ELEVATION AT DRAINAGE DIVIDE ALONG THE LONGE	ST STREAM,
H, = 855	
4) ELEVATION OF RESERVOIR AT SPILLWAY CREST , F	1 ₂ = 753.0'
5) ELEVATION OF CHANNEL BED AT 0.85 L , E85	= 820'
6) ELEVATION OF CHANNEL RED AT O.IOL , E,0	
7) AVERAGE SLOPE OF THE CHANNEL, SANG = (E85 - E10)/C	0.75L = .0034
8) TIME OF CONCENTRATION:	
A) BY KIRPICH'S EQUATION , - ((10)(1)(3)) .38	5.
A) BY KIRPICH'S EQUATION, $t_{c} = \left[(11.9 \times L^{3}) / (H_{1} - H_{2}) \right]^{0.385} = \left(\frac{(11.9)(4.66^{3})}{855-753} \right)^{.38}$ B) BY VELOCITY ESTIMATE.	= 2.59
B) BY VELOCITY ESTIMATE,	
SLOPE = .3% => AVG. VELOCITY = 2	
$t_c = L/V = \frac{22600}{60(60)^2} = 3.14$	
USE t _e = 2.59	
9) LAG TIME, ty = 0.6 tc = 1.55	
10) UNIT DURATION, $D \le t_2/3 = .52$	40.083 hr.
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